01794

A-1

Sierra 942A

RETRANSMISSION UNIT

SCHEMATIC DIAGRAMS
AND
PARTS LIST

INSTRUMENT REPAIR SERVICE, INC.
3135 REPS MILLER RD.
NORCROSS, GA 30071

PHILCO Ford
Philco-Ford Corporation
Sierra Electronic Operation

3885 Bohannon Drive
Menlo Park, California 94025
(415) 322-7222/TWX: 910-373-1282

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SCHEMATIC DIAGRAMS

INSTRUMENT REPAIR SERVICE, INC.
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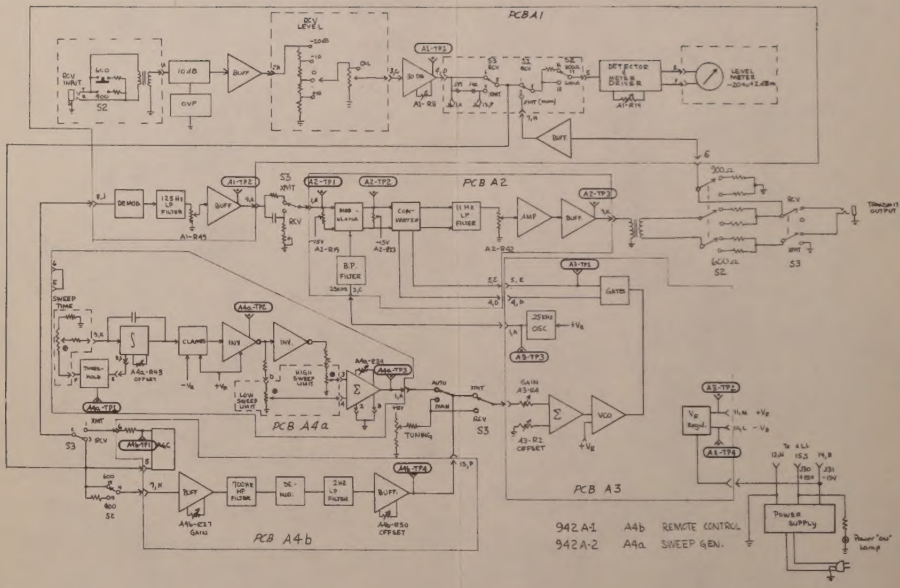
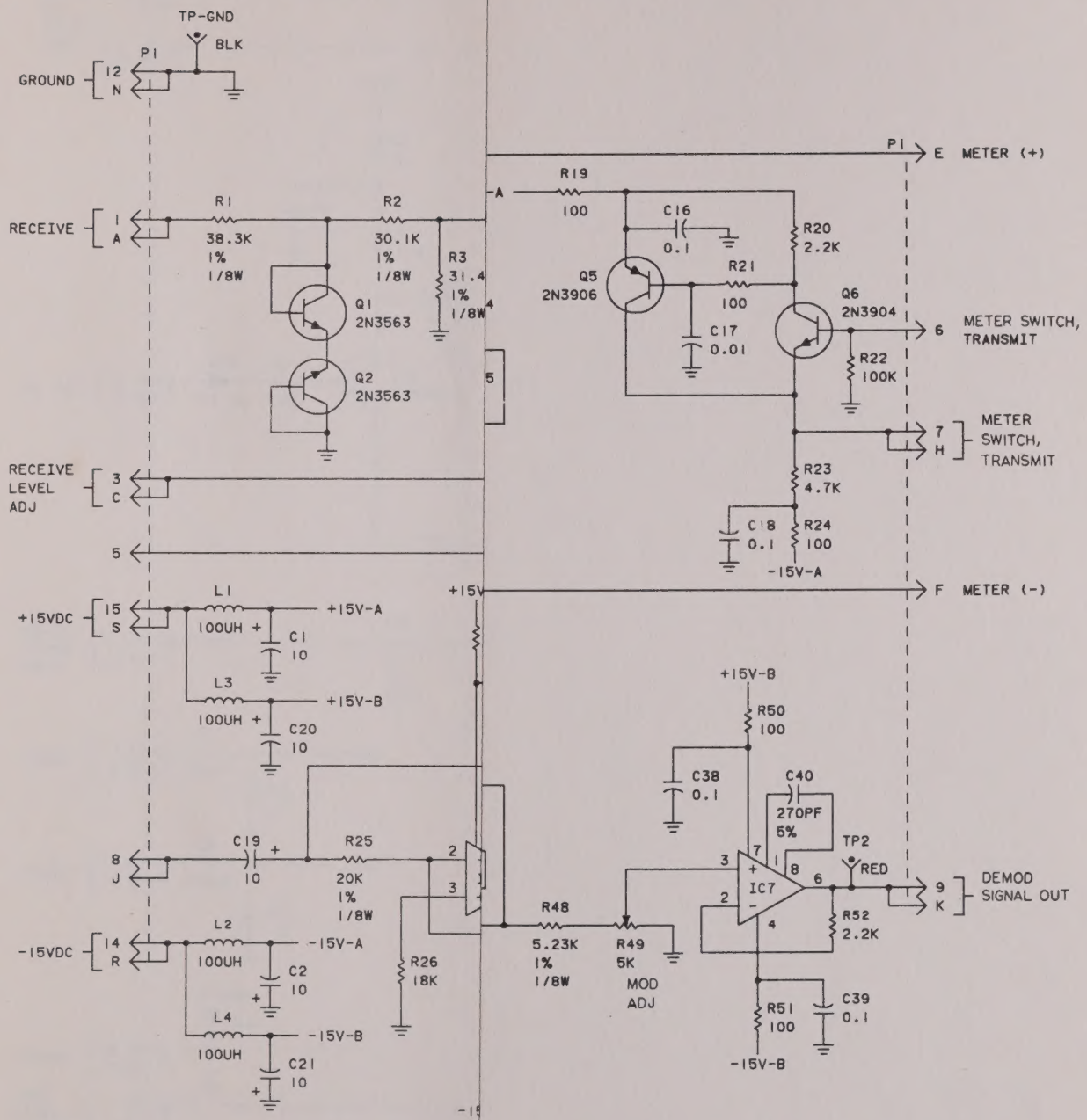


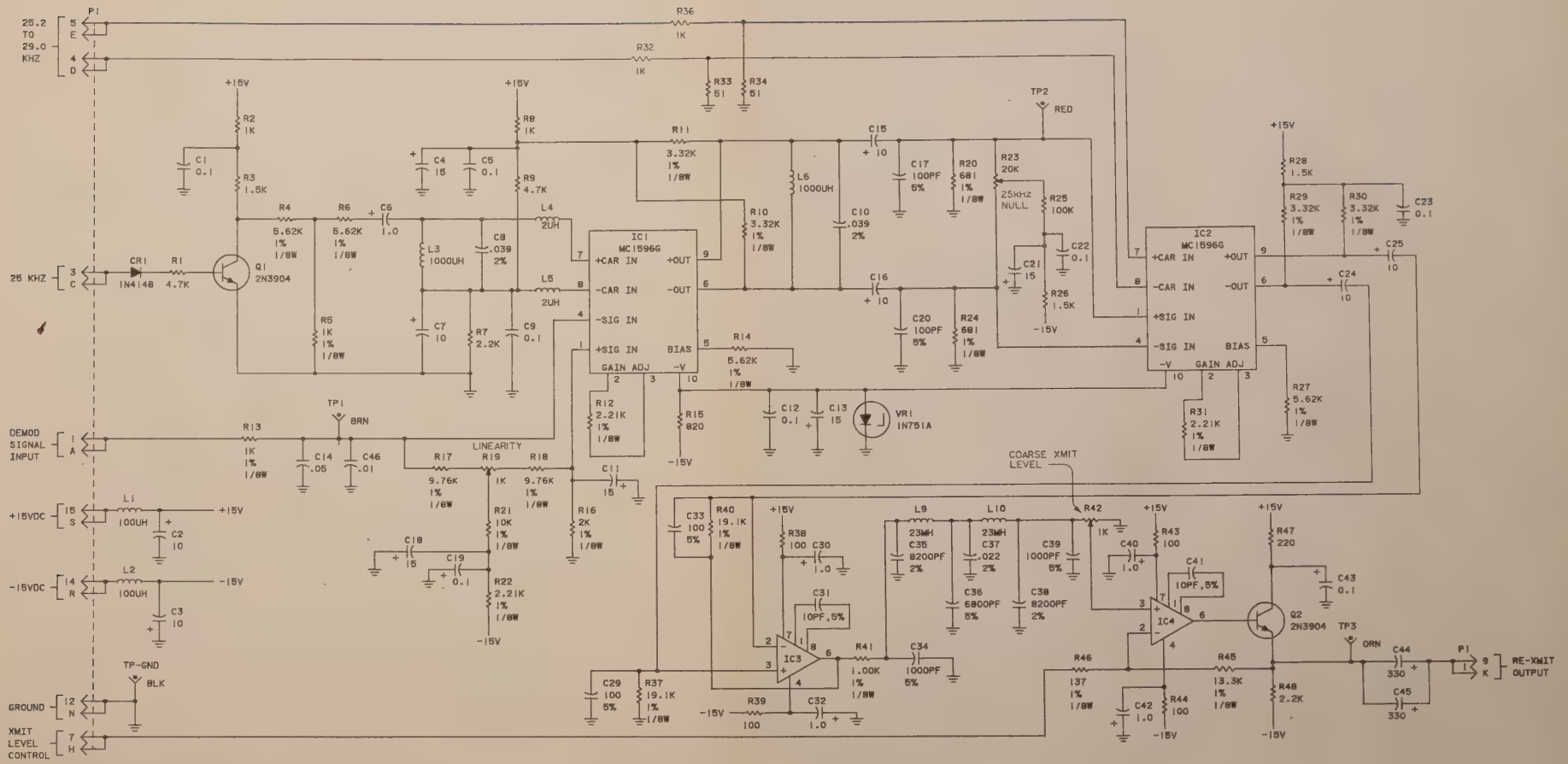
Figure 1. Sierra 942A Retransmission Unit, Block Diagram



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTOR VALUES IN OHMS, 5%, 1/4W
2. CAPACITOR VALUES IN MICROFARADS
3. DIODES ARE 1N4148
4. IC1 THRU 7 ARE LM301

Figure 2. Sierra 942A Receiver A1, Schematic Diagram

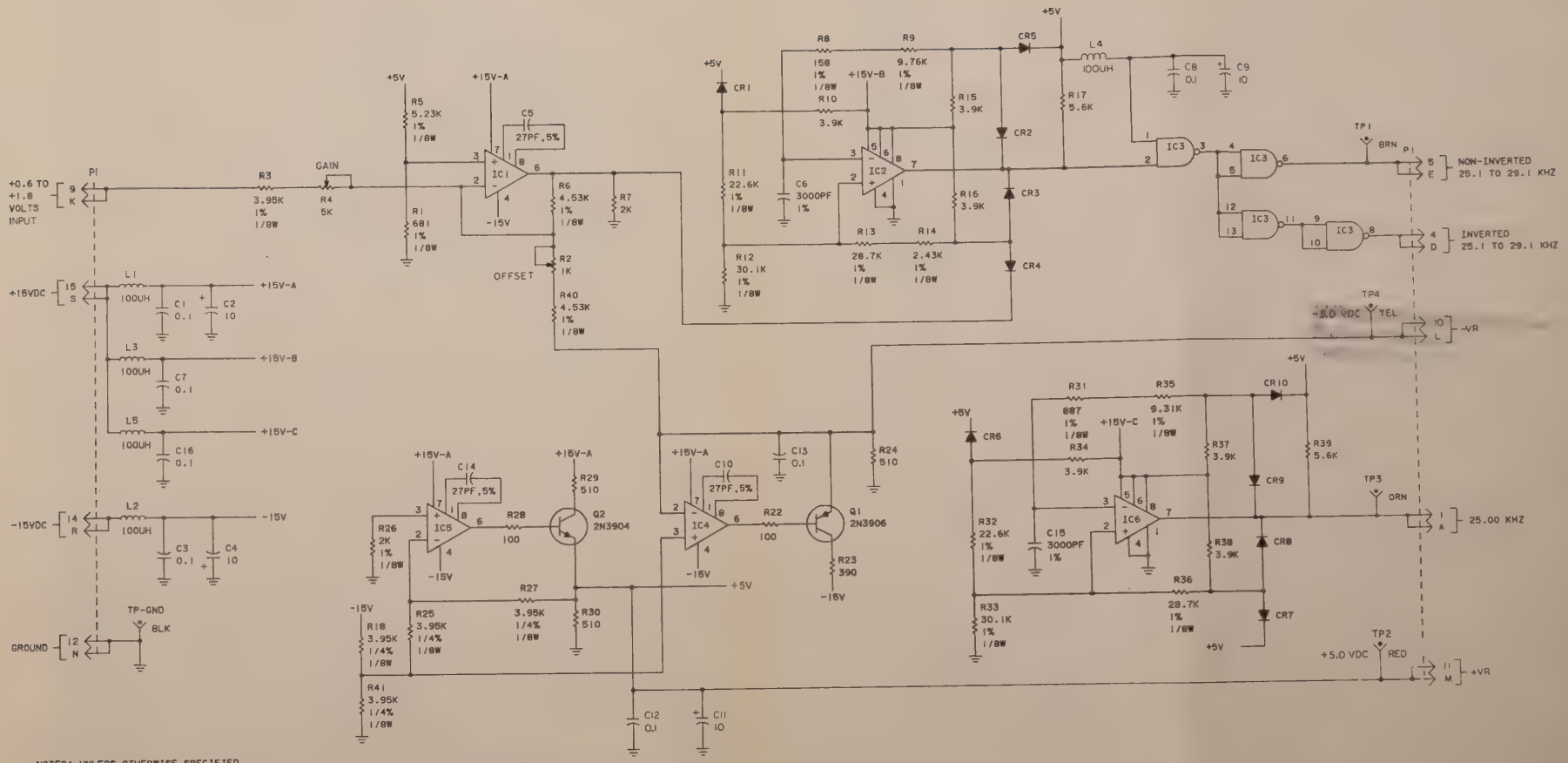


NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTOR VALUES ARE IN OHMS, 5%, 1/4W
2. CAPACITOR VALUES ARE IN MICROFARADS
3. IC3 AND 4 ARE LM301A

REFERENCE DESIGNATION BLOCK	
LAST NO.USED	NO. NOT USED
C46	C26-28
CR2	
IC4	
L10	L7,8
Q2	
R48	R35
TP3+GND	
VR1	

Figure 3. Sierra 942A Retransmitter A2, Schematic Diagram

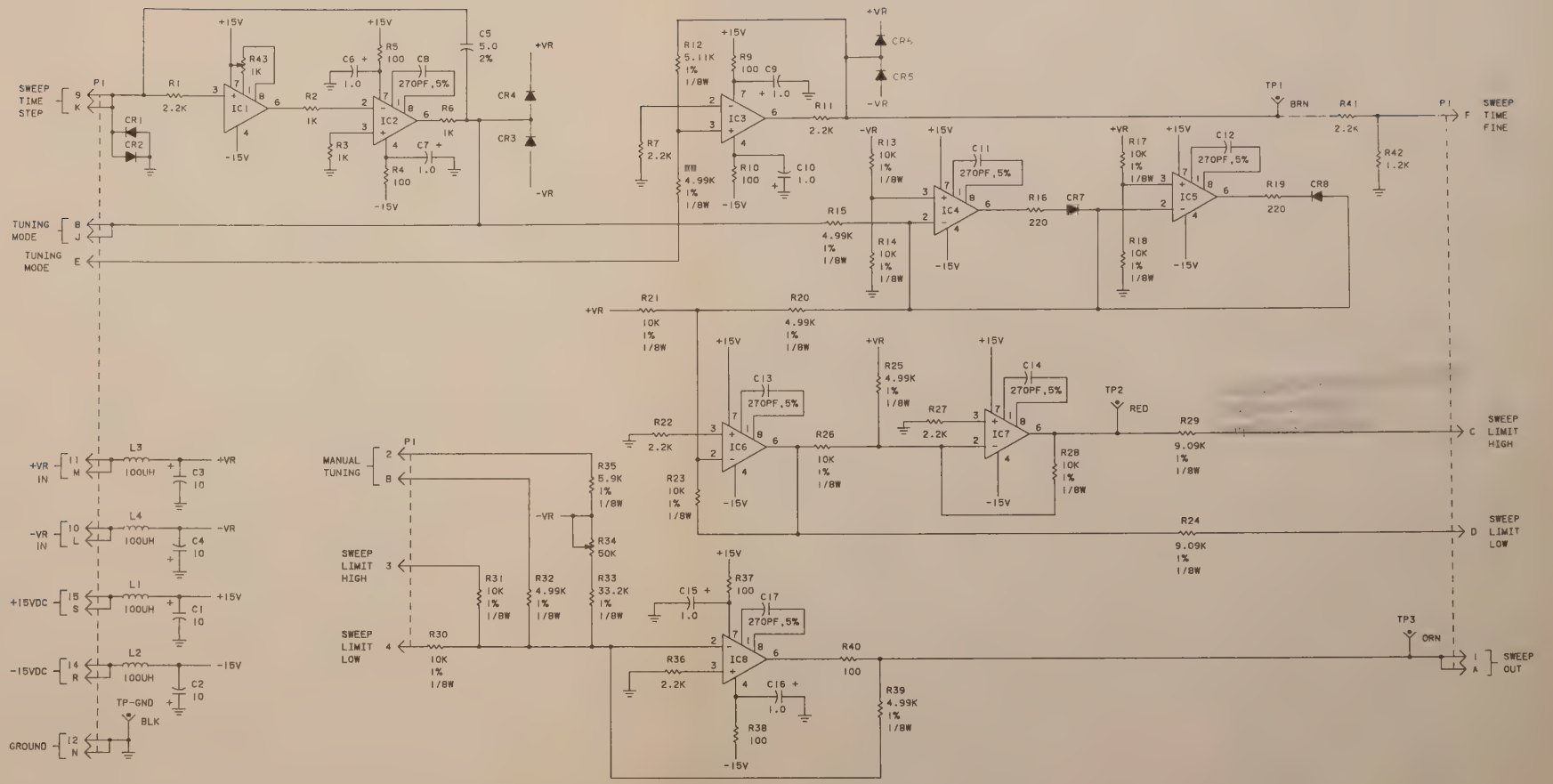


NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTOR VALUES ARE IN OHMS, 5%, 1/4W.
2. CAPACITOR VALUES ARE IN MICROFARADS.
3. DIODES ARE IN4148.
4. IC1,4 AND 5 ARE LM301; IC2 AND 6 ARE LM311; IC3 IS SN7400.
5. IC3 PIN 14 IS +5V, PIN 7 IS GND.

REFERENCE DESIGNATION BLOCK	
LAST NO. USED	NO. NOT USED
C16	
CR10	
IC6	
L5	
Q2	
R41	R19-21
TP4+GND	

Figure 4. Sierra 942A Voltage-Controlled Oscillator A3, Schematic Diagram

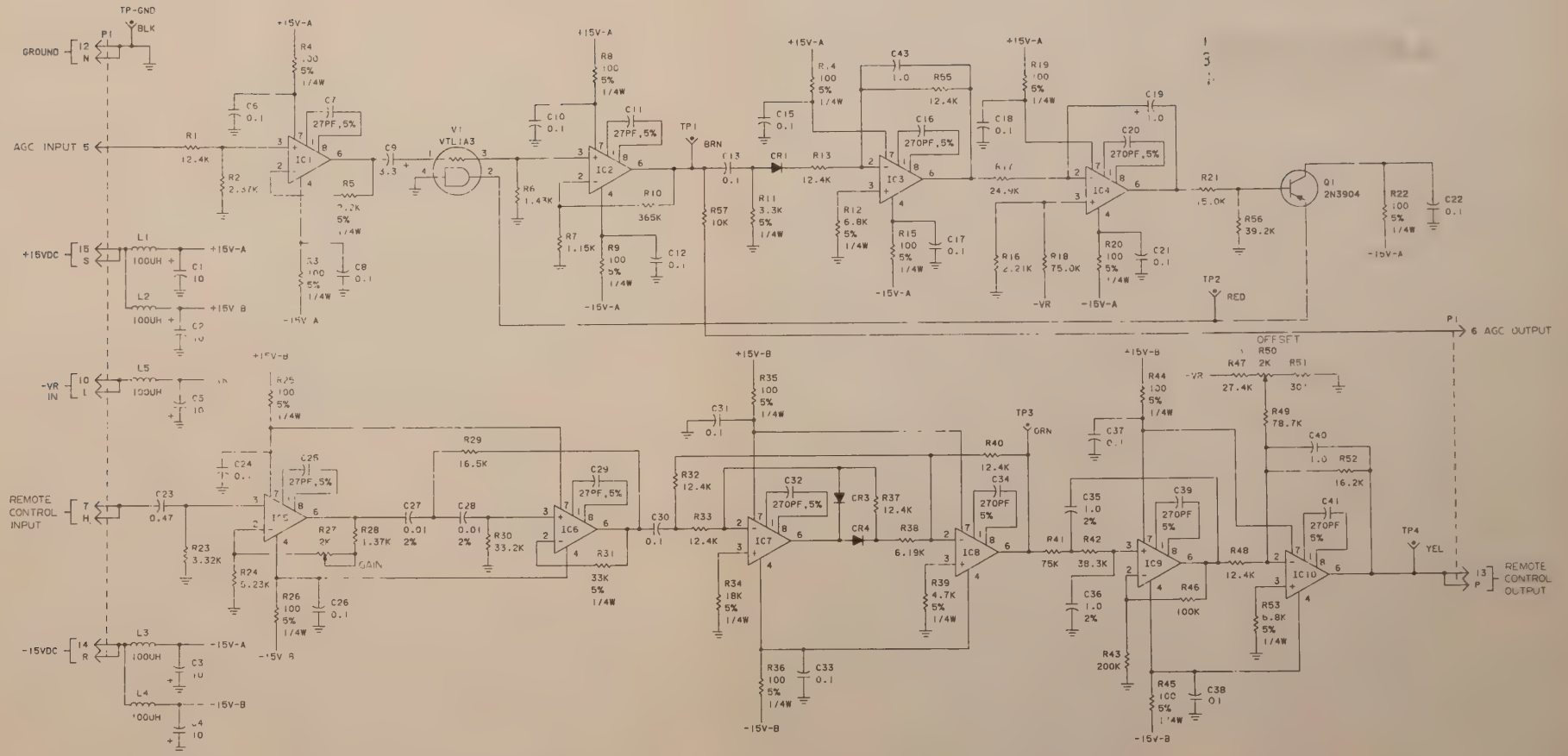


NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTOR VALUES ARE IN OHMS, 5%, 1/4W
2. CAPACITOR VALUES ARE IN MICROFARADS
3. DIODES ARE 1N4148
4. IC1 IS LM302; IC2,4-8 ARE LM301; IC3 IS UL709C

REFERENCE DESIGNATION BLOCK	
LAST NO.USED	NO. NOT USED
C17	
CR8	
IC8	
L4	
R43	
TP3+GND	

Figure 5. Sierra 942A Sweep Generator A4A, Schematic Diagram



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTOR VALUES IN OHMS, 1%, 1/8W
2. CAPACITOR VALUES IN MICROFARADS
3. DIODES ARE IN4148
4. IC 1 THRU 10 ARE LM301

REFERENCE DESIGNATION BLOCK	
LAST NO.USED	NO. NOT USED
C43	C14,C42
CR4	CR2
IC10	
L5	
Q1	
R57	R54
TP4+GND	
V1	

Figure 6. Sierra 942A Remote Control A4B, Schematic Diagram

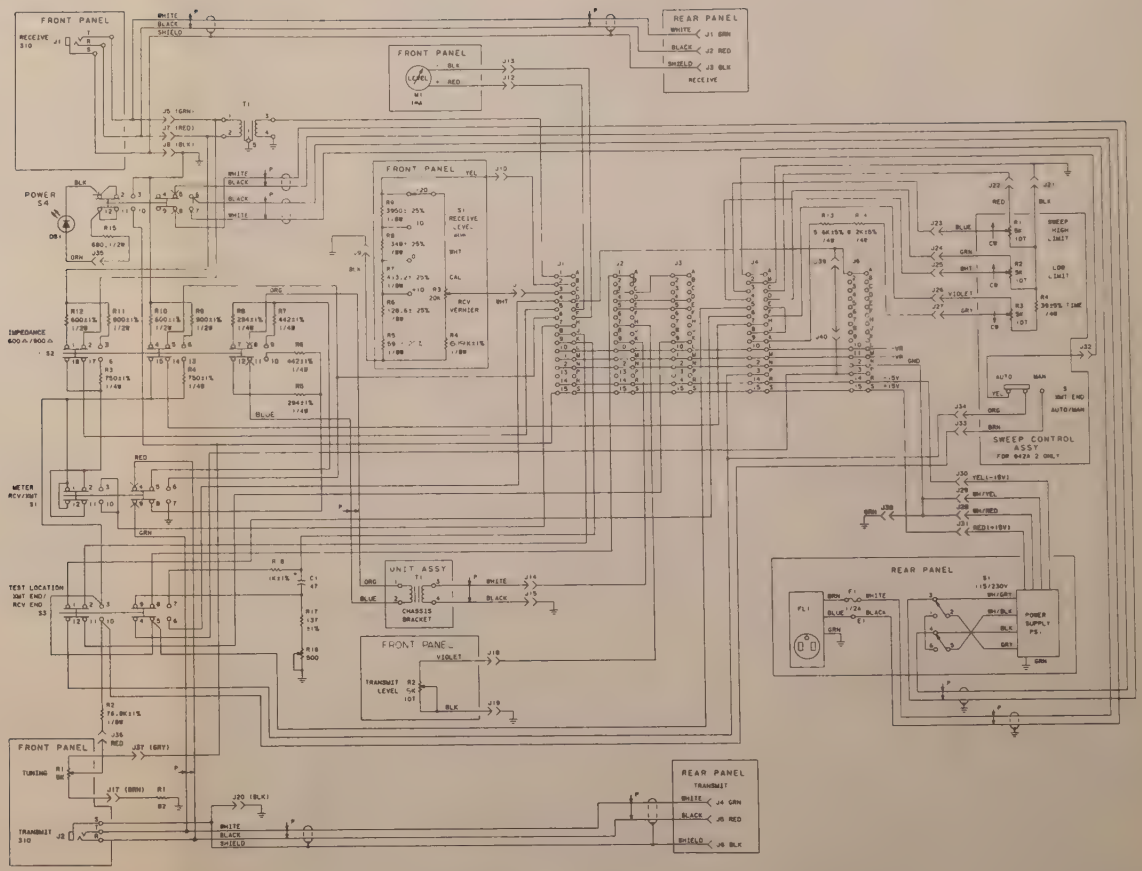


Figure 7. Sierra 942A Motherboard A5 and Unit Assembly, Schematic Diagram

SECTION 8
REPLACEABLE PARTS LIST

INTRODUCTION

8.01 This section contains a complete listing of all electronic components and mechanical parts subject to normal wearout or failure. Sheet metal parts and common bulk items, such as attaching hardware, wire and cable, and similar items not required for normal maintenance/repair activities are not listed. Detailed descriptions of the column headings are in the following paragraphs.

"REF DESIG"

8.02 This column contains the circuit reference designation of each electronic component in the instrument. The parts are listed in alpha-numeric reference designation sequence. Major modules such as printed circuit board assemblies, oscillator subassemblies, etc., which carry their own assembly designation (A1, A2, etc.) are listed first for reference in their own assembly position, and later in major assembly designation sequence with a complete breakdown of piece parts contained on the major assembly.

"DESCRIPTION"

8.03 This column contains descriptive identification of each assembly/part. This description should always be included when ordering replacement parts. The descriptions contain standardized abbreviations. All abbreviations used are listed in Table 8-1. When a description for an assembly contains the statement "/SEE BREAKDOWN/", it indicates that a complete breakdown of the assembly is provided further on in the parts list.

"SIERRA PART NUMBER"

8.04 This column contains the Sierra drawing number or stock number which is assigned to the part. This number should always be referenced when ordering replacement parts from Sierra.

"FMC"

8.05 This column contains the Federal Manufacturer's Code of the manufacturer of the part. Manufacturer's names and addresses, in numerical order by FMC, are listed in Table 8-2. When the FMC column contains "DESCR", it indicates that no FMC is assigned. The manufacturer's name and address can be found in the DESCRIPTION column.

"DRAWING NO. OR MFG NO."

8.06 This column contains the drawing or part number assigned by the manufacturer listed in the FMC column. This number should always be referenced when ordering replacement parts from the manufacturer. When this column contains "DESCRIPT.", it indicates that the part number was too long to be placed in this column. The part number can be found in the DESCRIPTION column.

"QTY"

8.07 This column gives the quantity of each item in its assembly application. When this column contains "REF", it indicates that a complete breakdown of the assembly is provided further on in the parts list.

"EFFECTIVITY CODE"

8.08 This column is used when more than one configuration of the instrument is being covered by the parts list. An alpha code in this column designates that the item pertains only to certain serial numbers or versions of the instrument. No alpha code in this column indicates that the part is common to all versions. A list of codes and serial numbers/versions will be included in this paragraph when applicable.

ORDERING INFORMATION

8.09 All listed parts may be ordered directly from the manufacturer or from Sierra. When ordering parts from Sierra always include:

1. Sierra Part Number
2. Circuit reference designation, when applicable
3. Description of the part
4. Name, model, and serial number of the instrument

8.10 Replacement parts or further information may be obtained from:

Sierra Electronic Operation
Philco-Ford Corporation
3885 Bohannon Drive
Menlo Park, California 94025
Telephone: (415) 322-7222
TWX: 910-373-1282

Table 8-1. Abbreviations

A	Ampere
BNDG	Binding
BW	Bandwidth
C	Centigrade
CER	Ceramic
COMP	Composition
COAX	Coaxial
COND	Conductor
CPS	Cycles per Second
CRT	Cathode Ray Tube
DB	Decibel
DBL	Double
DEG	Degree
DIP	Dual Inline Package
DPDT	Double Pole Double Throw
ELECT	Electrolytic
FXD	Fixed
ID	Inside Diameter

Table 8-1. Abbreviations (Cont)

IMPED	Impedance
KHZ	Kilohertz
LED	Light Emitting Diode
MA	Milliampere
MAX	Maximum
MFD	Manufactured
MH	Millihenry
NO.	Number
OD	Outside Diameter
PC	Printed Circuit
PCT	Percent
PF	Picofarad
PLSTC	Plastic
P/N	Part Number
PORM	Plus or Minus
POS	Position
PPM	Parts per Million
RF	Radio Frequency
SECT	Section
SPDT	Single Pole Double Throw
SPST	Single Pole Single Throw
UA	Microampere
UF	Microfarad
UH	Microhenry
V	Volt
VAR	Variable
W	Watt
WW	Wire Wound
W/	With

Table 8-2. Federal Manufacturer's Codes

Code	Manufacturer's Name and Address
00141	PIC Design Div., Benrus Corp., P.O. Box 335, Benrus Center, Ridgefield, Conn. 06877
00779	Amp Inc., P.O. Box 3608, Harrisburg, Pa. 17105
00853	Sangamo Electric Co., South Carolina Div., P.O. Box 128, Pickens, S.C. 29761
01121	Allen Bradley Co., 1201 2nd St., Milwaukee, Wis. 53212
01295	Texas Instruments Inc., Components Group, P.O. Box 5012, 13500 N. Central Expressway, Dallas, Tex. 75222
01686	RCL Electronics Div., 195 McGregor St., Manchester, N.H. 03102
02114	Ferroxcube Corp., P.O. Box 359, Mt. Marion Road, Saugerties, N.Y. 12477
02660	The Bunker-Ramo Corp., Amphenol Connector Div., 2801 So. 25th Ave., Broadview, Ill. 60153
02735	PCA Corp., Solid State Div., Route 202, Somerville, N.J. 08876
03508	General Electric Co., Semiconductor Products Dept., Electronics Park, Syracuse, N.Y. 13201
03797	Genisco Technology Corp., Eldema Div., 18435 Susana Rd., Compton, Calif. 90221
03877	Transitron Electronic Corp., 168-186 Albion St., Walsefield, Mass. 01880
04009	Arrow-Hart Inc., 103 Hawthorne St., Hartford, Conn. 06106

Table 8-2. Federal Manufacturer's Codes (Cont)

Code	Manufacturer's Name and Address
04713	Motorola Inc., Semiconductor Products Div., 5005 E. McDowell Rd., Phoenix, Ariz. 85008
05276	Pomona Electronics Co. Inc., P.O. Box 2767, 1500 E. 9th, Pomona, Calif. 91766
05518	Bearing Products Co., 3339 Lancaster Ave., Philadelphia, Penn. 19104
05574	Viking Industries Inc., 21001 Nordhoff, Chatsworth, Calif. 91311
05820	Walsefield Engineering Inc., Audubon Rd., Walsefield, Mass
06560	Airco Speer Electronics Div. of Airco Inc., P.O. Box 1692 Grand Plaza, 945 Grand Ave., Nogales, Ariz. 85621
07263	Fairchild Semiconductor, A Div. of Fairchild Camera and Instrument Corp., 464 Ellis St., Mt. View, Calif. 94040
07793	Cornell-Dubilier Electronic Div., Federal Pacific Electric Co., 4144 Glencoe Ave., Venice, Calif. 90291
07994	American Radionic Co. Inc., 51 Austin, Danbury, Conn. 06810
08289	The Blinn Delbert Co. Inc., 1678 E. Mission Blvd., Pomona, Calif. 91766
08730	Vemaline Products Co.Inc., P.O. Box 3, 455 W. Main St., Wyckoff, N.J. 07481
09023	Cornell-Dubilier Electronics Div., Federal Pacific Electric Co., 2562 Dalrymple, Sanford, N.C. 27330
09353	C and K Components Inc., 103 Morse St., Watertown, Mass. 02172
12498	Teledyne Crystalonics, 147 Sherman St., Cambridge, Mass. 02140
13480	Hughes Electronics Co., 1947 E. 223rd St., Long Beach, Calif. 90810
13862	Alasco Rubber and Plastics Corp., 839 Malcolm Rd., Burlingame, Calif. 94010
14193	Cal-R Inc., 1601 Olympic Blvd., Santa Monica, Calif. 90404
14433	ITT Semiconductors, 3301 Electronics Way, West Palm Beach, Fla. 33401
14655	Cornell-Dubilier Electronics Div. of Federal Pacific Electric Co., 150 Avenue L, Newark, N.J. 07101
14752	Electro Cube Inc., 1710 S. Del Mar Ave., San Gabriel, Calif. 91776
14949	Trompeter Electronics Inc., 8936 Comanche Ave., Chatsworth, Calif. 91311
15801	Fenwal Electronics Div. of Kidde Walter and Co. Inc., 63 Fountain St., Framingham, Mass. 01701
15912	Ansley Electronics Corp., A Subsidiary of Thomas and Betts Corp., 2828 N. Figueroa St., Los Angeles, Calif. 90065
16299	Corning Glass Works, Electronic Component Div., 3900 Electronics Dr., Raleigh, N.C. 27604
17856	Siliconix Inc., 2201 Laurelwood Rd., Santa Clara, Calif. 95054
17870	Edison Electronics Div., McGraw Edison Co., Grenier Field Municipal Airport, Manchester, N.H. 03130
18178	Vactec Inc., 2423 Northline Industrial Blvd., Maryland Heights, Mo. 63043
18324	Signetics Corp., 811 E. Arques, Sunnyvale, Calif. 94086
18796	Erie Technological Products Inc., State College Div., 1900 W. College Ave., State College, Pa. 16801
19701	Mepco/Electra Inc., Electra Div., P.O. Box 760, Mineral Wells, Tex. 76067
21845	Solitron Devices Inc., Transistor Div., 1177 Blue Heron Blvd., Riviera Beach, Fla. 33404
22229	Solitron Devices Inc., 8808 Balboa Ave., San Diego, Calif. 92123
23480	Electronic Hardware Corp., 180-08 Liberty Ave., Jamaica, N.Y. 11433
24248	Southco Inc., Lester, Pa. 19113
26656	Summit Engineering Co., 630 W. 3rd St., Lees Summit, Mo. 64063
26851	Compac Engineering Inc., 398 Commercial St., San Jose, Calif. 95112
27014	National Semiconductor Corp., 2900 San Ysidro Way, Santa Clara, Calif. 95051
27264	Molex Products Co., 5224 Katrine Ave., Downers Grove, Ill. 60515
27556	IMB Electronic Products Inc., 15401 E. Carmenita Rd., Santa Fe Springs, Calif. 90670
27777	Varo Inc., Electronic Devices Div., P.O. Box 1437, 2203 Walnut St., Garland, Tex. 75040
27956	Relcom, 2329 Charleston Rd., Mt. View, Calif. 94040
28480	Hewlett-Packard Co., 1501 Page Mill Rd., Palo Alto, Calif. 94304
29309	Rickey Electronics Inc., P.O. Box 8274, 1305 Dickerson Rd., Nashville, Tenn. 37207
29832	Teledyne Philbrick Nexus, Allied Drive at Route 128, Dedham, Mass. 02026
31356	J-B-T Instruments Inc., 424 Chapel St., P.O. Box 1818, New Haven, Conn. 06508

Table 8-2. Federal Manufacturer's Codes (Cont)

Code	Manufacturer's Name and Address
31918	International Electro Exchange Inc., 8081 Wallace Rd., Eden Prairie, Minn. 55343
44655	Ohmite Manufacturing Co., 3601 W. Howard St., Skokie, Ill. 60076
49956	Raytheon Co., 141 Spring St., Lexington, Mass. 02173
51642	Centre Engineering Inc., P.O. Box P-8, State College, Pa. 16801
55933	Sonotone Corp., Saw Mill River Rd., Elmsford, N.Y. 10523
56289	Sprague Electric Co., North Adams, Mass. 01247
58474	The Superior Electric Co., 383 Middle St., Bristol, Conn. 06010
59730	The Thomas and Betts Co., 36 Butler St., Elizabeth, N.J. 07207
70903	Belden Corp., 415 S. Kilpatrick, Chicago, Ill. 60644
71279	Cambridge Thermionic Corp., 445 Concord Ave., Cambridge, Mass. 02138
71400	Bussman Mfg. Div. of McGraw Edison Co., 2536 W. University St., St. Louis, Mo. 63017
71450	CTS Corp., 1142 W. Beardsley Ave., Elkhart, Ind. 46514
71590	Centralab Electronics Div. of Globe-Union Inc., 5757 N. Green Bay Ave., Milwaukee, Wis. 53201
71785	TRW Electronic Components, Cinch Connector Operations, 1501 Morse Ave., Elk Grove Village, Ill. 60007
72136	The Electro Motive Mfg. Co. Inc., South Park and John St., Willimantic, Conn. 06226
72259	Nytronics, Inc., 10 Pelham Parkway, Pelham Manor, N.Y. 10803
73138	Beckman Instruments Inc., Helipot Div., 2500 Harbor Blvd., Fullerton, Calif. 92634
73734	Federal Screw Products Inc., 3917 N. Kenzie Ave., Chicago, Ill. 60618
74199	Quam Nichols Co., 218 E. Marguette Rd., Chicago, Ill. 60637
75042	TRW Electronic Components, IRC Fixed Resistors, Philadelphia Div., 401 N. Broad St., Philadelphia, Pa. 19108
75523	Landis and Gyo Inc., 4 Westchester Plaza, Elmsford, N.Y. 10523
75915	Littelfuse Inc., 800 E. Northwest Highway, Des Plaines, Ill. 60016
76487	Millen James Mfg. Co. Inc., 150 Exchange St., Malden, Mass. 02148
76493	Bell Industries Inc. J.W. Miller Div., P.O. Box 5825, 19070 Reyes Ave., Compton, Calif. 90224
76854	Oaks Mfg. Co., Div. of Oaks Electro/Netics Corp., S. Main St., Crystal Lake, Ill. 60014
77630	TRW Electronic Components, TRW Electronic Functions, Davis and Copewood St., Camden, N.J. 08103
78189	Illinois Tool Works Inc., Shakeproof Div., St. Charles Rd., Elgin, Ill. 60120
79919	M.H. Rhodes Inc., 99 Thompson Rd., Avon, Conn. 06001
80223	TRW Electronic Components, UTC Transformers, 150 Varick St., New York, N.Y. 10013
80583	The Hammarlund Mfg. Co. Inc., 20 Bridge Ave., Red Banks, N.J. 07701
81071	Schauer Mfg. Corp., 4500 Alpine, Cincinnati, Ohio 45242
81073	Grayhill, Inc., 561 Hillgrove Ave., La Grange, Ill. 60525
81349	Military Specifications
81812	Trimm, Inc., 400 W. Lake, Libertyville, Ill. 60048
82389	Switchcraft, Inc., 5555 N. Elston Ave., Chicago, Ill. 60630
83125	Nytronics Inc., Capacitor Div., Orange St., Darlington, S.C. 29532
83186	Victory Engineering Corp., 128 Springfield Ave., Springfield, N.J. 07081
83330	Herman H. Smith Inc., 812 Snediker Ave., Brooklyn, N.Y. 11207
83930	Adel Products Div. of De Laval Turbine California Inc., 1444 Washington Ave., Huntington, W. Va. 25704
84411	TRW Electronic Components, TRW Capacitors, 112 W. First St., Ogallala, Neb. 69153
90201	Mallory Capacitor Co. Div. of P.R. Mallory and Co. Inc., P.O. Box 372, 3029 E. Washington St., Indianapolis, Ind. 46206
90303	Mallory Battery Co., S. Broadway, Tarrytown, N.Y. 10591
91506	Augat Inc., 33 Perry Ave., Attleboro, Mass. 02703
91637	Dale Electronics Inc., P.O. Box 609, Columbus, Neb. 68601
91737	ITT Gremar Inc., 922 S. Lyon St., Santa Ana, Calif. 92705
94117	Sanders Associates Inc., 95 Canal St., Nashua, N.H. 03060

Table 8-2. Federal Manufacturer's Codes

Code	Manufacturer's Name and Address
94668	Philco-Ford Corp., Sierra Electronic Operation, 3885 Bohannon Dr., Menlo Park, Calif. 94025
95146	Alco Electronic Products Inc., P.O. Box 1348, Lawrence, Mass. 01842
95275	Vitramon, Inc., Box 544, Bridgeport, Conn. 06601
97469	Airco Speer Carbon - Graphite Div. of Airco Inc. Electrode Dept., P.O. Box 412, Packard Rd., Niagra Falls, N.Y. 14302
99392	STM Corp., 2904 Chapman St., Oakland, Calif. 94601
99779	Barnes Division, Bunker Ramo Corp., 24 N. Lansdowne Ave., Lansdowne, Pa. 19050
99800	American Precision Industries Inc., Delevan Division, 270 Quaker Rd., East Aurora, N.Y. 14052

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
	SIERRA MODEL 942A RETRANSMIT UNIT	D02909800	94668	D02909800		
	RACK MOUNTING KIT-OPTIONAL	A02838500	94668	A02838500	1	
	TRANSFORMER ASSEMBLY	B03034200	94668	B03034200	1	
	PANEL ASSEMBLY,FRONT /SEE BREAKDOWN/	D03000000	94668	D03000000	REF	
	PANEL ASSEMBLY,REAR /SEE BREAKDOWN/	C03021800	94668	C03021800	REF	
A1	RECEIVER BOARD /SEE BREAKDOWN/	D02907800	94668	D02907800	REF	
A2	RETRANSMITTER BOARD /SEE BREAKDOWN/	D02908200	94668	D02908200	REF	
A3	VOLTAGE CONTROLLED OSCILLATOR /SEE BREAKDOWN/	D02908600	94668	D02908600	REF	
A5	MOTHER BOARD /SEE BREAKDOWN/	D03000200	94668	D03000200	REF	
A4B	REMOTE CONTROL-OPTIONAL /SEE BREAKDOWN/	D02909400	94668	D02909400	REF	
	PANEL ASSEMBLY,FRONT /BREAKDOWN/	D03000000	94668	D03000000		
	KNOB,ROUND,SKIRTED	916000121	49956	70-2WD-2G	1	
	KNOB,CONCENTRIC,DIAL SKIRT,LOWER BLK/ARROW	916000127	23480	1-F-2-B-C	1	
	KNOB,CONCENTRIC,UPPER ROUND RED W/DOT	916000128	23480	0-C-1-R	1	
DS1	DIODE,LIGHT EMITTING	910504887	28480	5082-4887	1	
J1	PHONE JACK	914400024	82389	11J-1087	1	
J2	PHONE JACK	914400024	82389	11J-1087	1	
M1	AMMETER,1.0MA	911800148	94668	911800148	1	
R1	RESISTOR,VAR,5K,PORM 10PCT,1/2W,10-TURN, LINEAR	907910320	71450	VA-45	1	
R2	RESISTOR,VAR,5K,PORM 10PCT,1/2W,10-TURN, LINEAR	907910320	71450	VA-45	1	
S1	SWITCH ASSEMBLY,RECEIVE LEVEL /SEE BREAKDOWN/	C03034300	94668	C03034300	REF	
	PANEL ASSEMBLY,REAR /BREAKDOWN/	C03021800	94668	C03021800		
	LUG,QUICK CONNECT	918600077	59730	RA187-020	1	
F1	FUSE,CARTRIDGE,0.5A	913200036	75915	312.500	1	
FL1	FILTER,RF,LINE,1.0A	910100106	94117	EMI-F-0205	1	
J1	BINDING POST,MINIATURE,GREEN	915200020	58474	DF-21GNC	1	
J2	BINDING POST,MINIATURE,RED	915200017	58474	DF-21RC	1	
J3	BINDING POST,MINIATURE,BLACK	915200018	58474	DF-21BC	1	
J4	BINDING POST,MINIATURE,GREEN	915200020	58474	DF-21GNC	1	
J5	BINDING POST,MINIATURE,RED	915200017	58474	DF-21RC	1	
J6	BINDING POST,MINIATURE,BLACK	915200018	58474	DF-21BC	1	
PS11	POWER SUPPLY ASSEMBLY /SEE BREAKDOWN/	C03039400	94668	C03039400	REF	
S1	SWITCH,SLIDE,DPDT	911000040	82389	46256LF	1	
W1	CABLE ASSEMBLY	C03034403	94668	C03034403	1	
W2	CABLE ASSEMBLY	C03034404	94668	C03034404	1	
W3	CABLE ASSEMBLY	C03034401	94668	C03034401	1	
W4	CABLE ASSEMBLY	C03034402	94668	C03034402	1	
XF1	FUSEHOLDER	913400014	75915	342028	1	
PS1	POWER SUPPLY ASSEMBLY /BREAKDOWN/	C03039400	94668	C03039400		
	CONNECTOR PIN,RECEPTACLE	914800163	00779	42470-1	1	
	POWER SUPPLY,PORM 15VDC AT 0.5A	919900060	94668	919900060	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
S1	SWITCH ASSEMBLY,RECEIVE LEVEL /BREAKDOWN/	C03034300	94668	C03034300		
R4	RESISTOR,FXD,FILM,6.19K,PORM 1PCT,1/8W	907306191	91637	MFF1/8	1	
R5	RESISTOR,FXD,FILM,59.1 OHM,PORM 0.25PCT, 1/8W	907700590	91637	MFF1/8	1	
R6	RESISTOR,FXD,FILM,128.6 OHM,PORM 0.25PCT, 1/8W	907701280	91637	MFF1/8	1	
R7	RESISTOR,FXD,FILM,413.2 OHM,PORM 0.25PCT, 1/8W	907704130	91637	MFF1/8	1	
R8	RESISTOR,FXD,FILM,1348 OHM,PORM 0.25PCT, 1/8W	907701341	91637	MFF1/8	1	
R9	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
S1/R3	SWITCH,ROTARY,1POLE,4POS,1SECT;W/20K,10PCT, 1/2W POT WITH SPST SWITCH	911200211	94668	911200211	1	
A1	RECEIVER BOARD /BREAKDOWN/	D02907800	94668	D02907800		
	PRINTED WIRING BOARD	904500493	94668	904500493	1	
	EJECTOR,PC BOARD	920400022	94668	920400022	2	
C1	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C2	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C3	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C4	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C5	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C6	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C7	CAPACITOR,FXD,MICA,10PF,PORM 5PCT,500V	901900100	72136	DM15-100J	1	
C8	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C9	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C10	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C11	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C12	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C13	CAPACITOR,FXD,MICA,10PF,PORM 5PCT,500V	901900100	72136	DM15-100J	1	
C14	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C15	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C16	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C17	CAPACITOR,FXD,CER,0.01UF,PORM 10PCT,200V	901330103	95275	CK06BX103K	1	
C18	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C19	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C20	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C21	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C22	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C23	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C24	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
C27	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C28	CAPACITOR,FXD,MYLAR,0.20UF,PORM 1PCT,50V	901100204	07994	2MFW0204F	1	
C29	CAPACITOR,FXD,MYLAR,0.20UF,PORM 1PCT,50V	901100204	07994	2MFW0204F	1	
C30	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C31	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C32	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C33	CAPACITOR,FXD,MYLAR,0.20UF,PORM 1PCT,50V	901100204	07994	2MFW0204F	1	
C34	CAPACITOR,FXD,MYLAR,0.20UF,PORM 1PCT,50V	901100204	07994	2MFW0204F	1	
C37	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C38	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C39	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C40	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
CR1	DIODE,SILICON	910500075	03508	1N4148	1	
CR2	DIODE,SILICON	910500075	03508	1N4148	1	
CR3	DIODE,SILICON	910500075	03508	1N4148	1	
CR4	DIODE,SILICON	910500075	03508	1N4148	1	
CR5	DIODE,SILICON	910500075	03508	1N4148	1	
CR6	DIODE,SILICON	910500075	03508	1N4148	1	
IC1	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC2	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC3	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC4	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC5	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC6	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC7	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
L1	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L2	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L3	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L4	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
Q1	TRANSISTOR,NPN	910300042	04713	2N3563	1	
Q2	TRANSISTOR,NPN	910300042	04713	2N3563	1	
Q3	TRANSISTOR,NPN	910300074	04713	2N3904	1	
Q4	TRANSISTOR,PNP	910300055	04713	2N3906	1	
Q5	TRANSISTOR,PNP	910300055	04713	2N3906	1	
Q6	TRANSISTOR,NPN	910300074	04713	2N3904	1	
R1	RESISTOR,FXD,FILM,38.3K,PORM 1PCT,1/8W	907303832	91637	MFF1/8	1	
R2	RESISTOR,FXD,FILM,30.1K,PORM 1PCT,1/8W	907303012	91637	MFF1/8	1	
R3	RESISTOR,FXD,FILM,31.4K,PORM 0.25PCT,1/8W	907703142	91637	MFF1/8	1	
R4	RESISTOR,FXD,COMP,4.7K,PORM 5PCT,1/4W	906900472	06560	906900472	1	
R5	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
R6	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R7	RESISTOR,FXD,FILM,453 OHM,PORM 1PCT,1/8W	907304530	91637	MFF1/8	1	
R8	RESISTOR,VAR,1K,PORM 10PCT,15-TURN	907900290	73138	89PR1K	1	
R9	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R10	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R11	RESISTOR,FXD,FILM,30.1K,PORM 1PCT,1/8W	907303012	91637	MFF1/8	1	
R12	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R13	RESISTOR,FXD,FILM,383 OHM,PORM 1PCT,1/8W	907303830	91637	MFF1/8	1	
R14	RESISTOR,VAR,200 OHM,PORM 20PCT,15-TURN	907900278	73138	89PR200	1	
R15	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R16	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R17	RESISTOR,FXD,COMP,470K,PORM 5PCT,1/4W	906900474	06560	906900474	1	
R18	RESISTOR,FXD,FILM,1.00K,PORM 1PCT,1/8W	907301001	91637	MFF1/8	1	
R19	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R20	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
R21	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R22	RESISTOR,FXD,COMP,100K,PORM 5PCT,1/4W	906900104	06560	906900104	1	
R23	RESISTOR,FXD,COMP,4.7K,PORM 5PCT,1/4W	906900472	06560	906900472	1	
R24	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R25	RESISTOR,FXD,FILM,20.0K,PORM 1PCT,1/8W	907302002	91637	MFF1/8	1	
R26	RESISTOR,FXD,COMP,18K,PORM 5PCT,1/4W	906900183	06560	906900183	1	
R27	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R28	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R29	RESISTOR,FXD,FILM,20.0K,PORM 1PCT,1/8W	907302002	91637	MFF1/8	1	
R30	RESISTOR,FXD,FILM,20.0K,PORM 1PCT,1/8W	907302002	91637	MFF1/8	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
R31	RESISTOR,FXD,FILM,10.0K,PORM 1PCT,1/8W	907301002	91637	MFF1/8	1	
R32	RESISTOR,FXD,COMP,8.2K,PORM 5PCT,1/4W	906900822	06560	906900822	1	
R35	RESISTOR,FXD,FILM,20.0K,PORM 1PCT,1/8W	907302002	91637	MFF1/8	1	
R36	RESISTOR,FXD,FILM,6.34K,PORM 1PCT,1/8W	907306341	91637	MFF1/8	1	
R37	RESISTOR,FXD,FILM,6.34K,PORM 1PCT,1/8W	907306341	91637	MFF1/8	1	
R38	RESISTOR,FXD,FILM,4.02K,PORM 1PCT,1/8W	907304021	91637	MFF1/8	1	
R39	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R40	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R41	RESISTOR,FXD,FILM,619 OHM,PORM 1PCT,1/8W	907306190	91637	MFF1/8	1	
R42	RESISTOR,FXD,FILM,6.34K,PORM 1PCT,1/8W	907306341	91637	MFF1/8	1	
R43	RESISTOR,FXD,FILM,6.34K,PORM 1PCT,1/8W	907306341	91637	MFF1/8	1	
R44	RESISTOR,FXD,FILM,953 OHM,PORM 1PCT,1/8W	907309530	91637	MFF1/8	1	
R47	RESISTOR,FXD,FILM,1.18K,PORM 1PCT,1/8W	907301181	91637	MFF1/8	1	
R48	RESISTOR,FXD,FILM,5.23K,PORM 1PCT,1/8W	907305231	91637	MFF1/8	1	
R49	RESISTOR,VAR,5K,PORM 10PCT,15-TURN	907900316	73138	89PR5K	1	
R50	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R51	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R52	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
R54	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
TPGND	JACK,TEST,PC BOARD,BLACK	915200032	83330	430-103	1	
TP1	JACK,TEST,PC BOARD,BROWN	915200030	83330	430-108	1	
TP2	JACK,TEST,PC BOARD,RED	915200029	83330	430-102	1	
A2	RETRANSMITTER BOARD /BREAKDOWN/	D02908200	94668	D02908200		
	PRINTED WIRING BOARD	904500494	94668	904500494	1	
	EJECTOR,PC BOARD	920400022	94668	920400022	2	
C1	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C2	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C3	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C4	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C5	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C6	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C7	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C8	CAPACITOR,FXD,PLSTC,0.039UF,PORM 2PCT,50V OR 100V	903100393	07994	SE-PCBPC0393G	1	
C9	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C10	CAPACITOR,FXD,PLSTC,0.039UF,PORM 2PCT,50V OR 100V	903100393	07994	SE-PCBPC0393G	1	
C11	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C12	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C13	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C14	CAPACITOR,FXD,MYLAR,0.05UF,PORM 10PCT,100V	901100503	72136	IDP-2-503	1	
C15	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C16	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C17	CAPACITOR,FXD,MICA,100PF,PORM 5PCT,500V	901900101	72136	DM15-101J	1	
C18	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	
C19	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C20	CAPACITOR,FXD,MICA,100PF,PORM 5PCT,500V	901900101	72136	DM15-101J	1	
C21	CAPACITOR,FXD,ELECT,15UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700156	81349	CS13BE156K	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
C22	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C23	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C24	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C25	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C29	CAPACITOR,FXD,MICA,100PF,PORM 5PCT,500V	901900101	72136	DM15-101J	1	
C30	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C31	CAPACITOR,FXD,MICA,10PF,PORM 5PCT,500V	901900100	72136	DM15-100J	1	
C32	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C33	CAPACITOR,FXD,MICA,100PF,PORM 5PCT,500V	901900101	72136	DM15-101J	1	
C34	CAPACITOR,FXD,MICA,1000PF,PORM 5PCT,100V	901920102	72136	DM15-102J	1	
C35	CAPACITOR,FXD,MICA,8200PF,PORM 2PCT,100V	901900822	72136	DM19-822G	1	
C36	CAPACITOR,FXD,MICA,6800PF,PORM 5PCT,300V	901900682	72136	DM19-682J	1	
C37	CAPACITOR,FXD,PLSTC,0.022UF,PORM 2PCT,50V OR 100V	903100223	07994	SE-PCBPC0223G	1	
C38	CAPACITOR,FXD,MICA,8200PF,PORM 2PCT,100V	901900822	72136	DM19-822G	1	
C39	CAPACITOR,FXD,MICA,1000PF,PORM 5PCT,100V	901920102	72136	DM15-102J	1	
C40	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C41	CAPACITOR,FXD,MICA,10PF,PORM 5PCT,500V	901900100	72136	DM15-100J	1	
C42	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C43	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C44	CAPACITOR,FXD,ELECT,330UF,PORM 10PCT,6V, TANTALUM DIELECTRIC,SLEEVED	902700337	81349	CS13BB337K	1	
C45	CAPACITOR,FXD,ELECT,330UF,PORM 10PCT,6V, TANTALUM DIELECTRIC,SLEEVED	902700337	81349	CS13BB337K	1	
C46	CAPACITOR,FXD,CER,0.01UF,PORM 10PCT,200V	901330103	95275	CK06BX103K	1	
IC1	INTEGRATED CIRCUIT,BALANCED MOD-DEMOD	920300083	04713	MC1596G	1	
IC2	INTEGRATED CIRCUIT,BALANCED MOD-DEMOD	920300083	04713	MC1596G	1	
IC3	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC4	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
L1	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L2	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L3	INDUCTOR,FXD,RF,1000UH,PORM 5PCT,1/4W	909000155	99800	2500-28	1	
L4	INDUCTOR,FXD,RF,WIDE BAND CHOKE,MAX IMPED AT 50MHZ EQUALS 0.75K	909000158	02114	VK200-10-3B	1	
L5	INDUCTOR,FXD,RF,WIDE BAND CHOKE,MAX IMPED AT 50MHZ EQUALS 0.75K	909000158	02114	VK200-10-3B	1	
L6	INDUCTOR,FXD,RF,1000UH,PORM 5PCT,1/4W	909000155	99800	2500-28	1	
L9	INDUCTOR,FXD,RF,TOROID,23MH,PORM 1PCT	909000119	94668	909000119	1	
L10	INDUCTOR,FXD,RF,TOROID,23MH,PORM 1PCT	909000119	94668	909000119	1	
Q1	TRANSISTOR,NPN	910300074	04713	2N3904	1	
Q2	TRANSISTOR,NPN	910300074	04713	2N3904	1	
R1	RESISTOR,FXD,COMP,4.7K,PORM 5PCT,1/4W	906900472	06560	906900472	1	
R2	RESISTOR,FXD,COMP,1K,PORM 5PCT,1/4W	906900102	06560	906900102	1	
R3	RESISTOR,FXD,COMP,1.5K,PORM 5PCT,1/4W	906900152	06560	906900152	1	
R4	RESISTOR,FXD,FILM,5.62K,PORM 1PCT,1/8W	907305621	91637	MFF1/8	1	
R5	RESISTOR,FXD,FILM,1.00K,PORM 1PCT,1/8W	907301001	91637	MFF1/8	1	
R6	RESISTOR,FXD,FILM,5.62K,PORM 1PCT,1/8W	907305621	91637	MFF1/8	1	
R7	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
R8	RESISTOR,FXD,COMP,1K,PORM 5PCT,1/4W	906900102	06560	906900102	1	
R9	RESISTOR,FXD,COMP,4.7K,PORM 5PCT,1/4W	906900472	06560	906900472	1	
R10	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R11	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R12	RESISTOR,FXD,FILM,2.21K,PORM 1PCT,1/8W	907302211	91637	MFF1/8	1	
R13	RESISTOR,FXD,FILM,1.00K,PORM 1PCT,1/8W	907301001	91637	MFF1/8	1	
R14	RESISTOR,FXD,FILM,5.62K,PORM 1PCT,1/8W	907305621	91637	MFF1/8	1	
R15	RESISTOR,FXD,COMP,820 OHM,PORM 5PCT,1/4W	906900821	06560	906900821	1	
R16	RESISTOR,FXD,FILM,2.0K,PORM 1PCT,1/8W	907302001	91637	MFF1/8	1	
R17	RESISTOR,FXD,FILM,9.76K,PORM 1PCT,1/8W	907309761	91637	MFF1/8	1	
R18	RESISTOR,FXD,FILM,9.76K,PORM 1PCT,1/8W	907309761	91637	MFF1/8	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
R19	RESISTOR,VAR,1K,PORM 10PCT,15-TURN	907900290	73138	89PR1K	1	
R20	RESISTOR,FXD,FILM,681 OHM,PORM 1PCT,1/8W	907306810	91637	MFF1/8	1	
R21	RESISTOR,FXD,FILM,10.0K,PORM 1PCT,1/8W	907301002	91637	MFF1/8	1	
R22	RESISTOR,FXD,FILM,2.21K,PORM 1PCT,1/8W	907302211	91637	MFF1/8	1	
R23	RESISTOR,VAR,20K,PORM 10PCT,1/2W,15-TURN	907900331	73138	89PR20K	1	
R24	RESISTOR,FXD,FILM,681 OHM,PORM 1PCT,1/8W	907306810	91637	MFF1/8	1	
R25	RESISTOR,FXD,COMP,100K,PORM 5PCT,1/4W	906900104	06560	906900104	1	
R26	RESISTOR,FXD,COMP,1.5K,PORM 5PCT,1/4W	906900152	06560	906900152	1	
R27	RESISTOR,FXD,FILM,5.62K,PORM 1PCT,1/8W	907305621	91637	MFF1/8	1	
R28	RESISTOR,FXD,COMP,1.5K,PORM 5PCT,1/4W	906900152	06560	906900152	1	
R29	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R30	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R31	RESISTOR,FXD,FILM,2.21K,PORM 1PCT,1/8W	907302211	91637	MFF1/8	1	
R32	RESISTOR,FXD,COMP,1K,PORM 5PCT,1/4W	906900102	06560	906900102	1	
R33	RESISTOR,FXD,COMP,51 OHM,PORM 5PCT,1/4W	906900510	01121	CB	1	
R34	RESISTOR,FXD,COMP,51 OHM,PORM 5PCT,1/4W	906900510	01121	CB	1	
R36	RESISTOR,FXD,COMP,1K,PORM 5PCT,1/4W	906900102	06560	906900102	1	
R37	RESISTOR,FXD,FILM,19.1K,PORM 1PCT,1/8W	907301912	91637	MFF1/8	1	
R38	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R39	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R40	RESISTOR,FXD,FILM,19.1K,PORM 1PCT,1/8W	907301912	91637	MFF1/8	1	
R41	RESISTOR,FXD,FILM,1.00K,PORM 1PCT,1/8W	907301001	91637	MFF1/8	1	
R42	RESISTOR,VAR,1K,PORM 10PCT,15-TURN	907900290	73138	89PR1K	1	
R43	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R44	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R45	RESISTOR,FXD,FILM,13.3K,PORM 1PCT,1/8W	907301332	91637	MFF1/8	1	
R46	RESISTOR,FXD,FILM,137 OHM,PORM 1PCT,1/8W	907301370	91637	MFF1/8	1	
R47	RESISTOR,FXD,COMP,220 OHM,PORM 5PCT,1/4W	906900221	06560	906900221	1	
R48	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
TPGND	JACK,TEST,PC BOARD,BLACK	915200032	83330	430-103	1	
TP1	JACK,TEST,PC BOARD,BROWN	915200030	83330	430-108	1	
TP2	JACK,TEST,PC BOARD,RED	915200029	83330	430-102	1	
TP3	JACK,TEST,PC BOARD,ORANGE	915200028	83330	430-106	1	
VR1	DIODE,SILICON,ZENER	910500076	04713	1N751A	1	
VR2	DIODE,SILICON	910500075	03508	1N4148	1	
A3	VOLTAGE CONTROLLED OSCILLATOR /BREAKDOWN/	D02908600	94668	D02908600		
	PRINTED WIRING BOARD	904500495	94668	904500495	1	
	EJECTOR,PC BOARD	920400022	94668	920400022	2	
C1	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C2	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C3	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C4	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C5	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C6	CAPACITOR,FXD,MICA,3000PF,PORM 1PCT,500V	901910302	72136	DM19F302F	1	
C7	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C8	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C9	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C10	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C11	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C12	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C13	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C14	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C15	CAPACITOR,FXD,MICA,3000PF,PORM 1PCT,500V	901910302	72136	DM19F302F	1	
C16	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
CR1	DIODE,SILICON	910500075	03508	1N4148	1	
CR2	DIODE,SILICON	910500075	03508	1N4148	1	
CR3	DIODE,SILICON	910500075	03508	1N4148	1	
CR4	DIODE,SILICON	910500075	03508	1N4148	1	
CR5	DIODE,SILICON	910500075	03508	1N4148	1	
CR6	DIODE,SILICON	910500075	03508	1N4148	1	
CR7	DIODE,SILICON	910500075	03508	1N4148	1	
CR8	DIODE,SILICON	910500075	03508	1N4148	1	
CR9	DIODE,SILICON	910500075	03508	1N4148	1	
CR10	DIODE,SILICON	910500075	03508	1N4148	1	
IC1	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC2	INTEGRATED CIRCUIT,VOLTAGE COMPARATOR	920300118	27014	LM311H	1	
IC3	INTEGRATED CIRCUIT,QUAD 2POSITIVE NAND GATE	920300050	01295	SN7400N	1	
IC4	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC5	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC6	INTEGRATED CIRCUIT,VOLTAGE COMPARATOR	920300118	27014	LM311H	1	
L1	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L2	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L3	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L4	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L5	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
Q1	TRANSISTOR,PNP	910300055	04713	2N3906	1	
Q2	TRANSISTOR,NPN	910300074	04713	2N3904	1	
R1	RESISTOR,FXD,FILM,681 OHM,PORM 1PCT,1/8W	907300179	91637	MFF1/8	1	
R2	RESISTOR,VAR,1K,PORM 10PCT,15-TURN	907900290	73138	89PR1K	1	
R3	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
R4	RESISTOR,VAR,5K,PORM 10PCT,15-TURN	907900316	73138	89PR5K	1	
R5	RESISTOR,FXD,FILM,5.23K,PORM 1PCT,1/8W	907305231	91637	MFF1/8	1	
R6	RESISTOR,FXD,FILM,4.53K,PORM 1PCT,1/8W	907304531	91637	MFF1/8	1	
R7	RESISTOR,FXD,COMP,2K,PORM 5PCT,1/4W	906900202	06560	906900202	1	
R8	RESISTOR,FXD,FILM,158 OHM,PORM 1PCT,1/8W	907301580	91637	MFF1/8	1	
R9	RESISTOR,FXD,FILM,9.76K,PORM 1PCT,1/8W	907309761	91637	MFF1/8	1	
R10	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R11	RESISTOR,FXD,FILM,22.6K,PORM 1PCT,1/8W	907302262	91637	MFF1/8	1	
R12	RESISTOR,FXD,FILM,30.1K,PORM 1PCT,1/8W	907303012	91637	MFF1/8	1	
R13	RESISTOR,FXD,FILM,28.7K,PORM 1PCT,1/8W	907302872	91637	MFF1/8	1	
R14	RESISTOR,FXD,FILM,2.43K,PORM 1PCT,1/8W	907302431	91637	MFF1/8	1	
R15	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R16	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R17	RESISTOR,FXD,COMP,5.6K,PORM 5PCT,1/4W	906900562	06560	906900562	1	
R18	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
R22	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R23	RESISTOR,FXD,COMP,390 OHM,PORM 5PCT,1/4W	906900391	06560	906900391	1	
R24	RESISTOR,FXD,COMP,510 OHM,PORM 5PCT,1/4W	906900511	01121	CB	1	
R25	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
R26	RESISTOR,FXD,FILM,2.0K,PORM 1PCT,1/8W	907302001	91637	MFF1/8	1	
R27	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
R28	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R29	RESISTOR,FXD,COMP,390 OHM,PORM 5PCT,1/4W	906900391	06560	906900391	1	
R30	RESISTOR,FXD,COMP,510 OHM,PORM 5PCT,1/4W	906900511	01121	CB	1	
R31	RESISTOR,FXD,FILM,887 OHM,PORM 1PCT,1/8W	907308870	91637	MFF1/8	1	
R32	RESISTOR,FXD,FILM,22.6K,PORM 1PCT,1/8W	907302262	91637	MFF1/8	1	
R33	RESISTOR,FXD,FILM,30.1K,PORM 1PCT,1/8W	907303012	91637	MFF1/8	1	
R34	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R35	RESISTOR,FXD,FILM,9.31K,PORM 1PCT,1/8W	907309311	91637	MFF1/8	1	
R36	RESISTOR,FXD,FILM,28.7K,PORM 1PCT,1/8W	907302872	91637	MFF1/8	1	
R37	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R38	RESISTOR,FXD,COMP,3.9K,PORM 5PCT,1/4W	906900392	06560	906900392	1	
R39	RESISTOR,FXD,COMP,5.6K,PORM 5PCT,1/4W	906900562	06560	906900562	1	
R40	RESISTOR,FXD,FILM,4.53K,PORM 1PCT,1/8W	907304531	91637	MFF1/8	1	
R41	RESISTOR,FXD,FILM,3.95K,PORM 0.25PCT,1/8W	907703951	91637	MFF1/8	1	
TPGND	JACK,TEST,PC BOARD,BLACK	915200032	83330	430-103	1	
TP1	JACK,TEST,PC BOARD,BROWN	915200030	83330	430-108	1	
TP2	JACK,TEST,PC BOARD,RED	915200029	83330	430-102	1	
TP3	JACK,TEST,PC BOARD,ORANGE	915200028	83330	430-106	1	
TP4	JACK,TEST,PC BOARD,YELLOW	915200027	83330	430-107	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
A4B	REMOTE CONTROL-OPTIONAL /BREAKDOWN/	D02909400	94668	D02909400		
	PRINTED WIRING BOARD	904500497	94668	904500497	1	
	EJECTOR,PC BOARD	920400022	94668	920400022	1	
C1	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C2	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C3	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C4	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C5	CAPACITOR,FXD,ELECT,10UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902720106	81349	CS13BE106K	1	
C6	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C7	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C8	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C9	CAPACITOR,FXD,ELECT,3.3UF,PORM 10PCT,15V, TANTALUM DIELECTRIC,SLEEVED	902700335	81349	CS13BD335K	1	
C10	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C11	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C12	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C13	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C15	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C16	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C17	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C18	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C19	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C20	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C21	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C22	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C23	CAPACITOR,FXD,ELECT,0.47UF,PORM 10PCT,35V, TANTALUM DIELECTRIC,SLEEVED	902700474	81349	CS13BF474K	1	
C24	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C25	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C26	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C27	CAPACITOR,FXD,PLSTC,0.01UF,PORM 2PCT,50V	903100103	07994	MPFW0103G	1	
C28	CAPACITOR,FXD,PLSTC,0.01UF,PORM 2PCT,50V	903100103	07994	MPFW0103G	1	
C29	CAPACITOR,FXD,MICA,27PF,PORM 2PCT,500V	901910270	94668	901910270	1	
C30	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C31	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C32	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C33	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C34	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C35	CAPACITOR,FXD,MYLAR,1.0UF,PORM 2PCT,50/100V	901100105	07994	2MFW1105G	1	
C36	CAPACITOR,FXD,MYLAR,1.0UF,PORM 2PCT,50/100V	901100105	07994	2MFW1105G	1	
C37	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C38	CAPACITOR,FXD,CER,0.1UF,PORM 20PCT,50V	901300104	71590	CY30C104M	1	
C39	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C40	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
C41	CAPACITOR,FXD,MICA,270PF,PORM 5PCT,500V	901900271	72136	DM15-271J	1	
C43	CAPACITOR,FXD,ELECT,1UF,PORM 10PCT,50V, TANTALUM DIELECTRIC,SLEEVED	902760105	81349	CS13BG105K	1	
CR1	DIODE,SILICON	910500075	03508	1N4148	1	
CR3	DIODE,SILICON	910500075	03508	1N4148	1	
CR4	DIODE,SILICON	910500075	03508	1N4148	1	
IC1	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
IC2	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC3	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC4	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC5	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC6	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC7	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC8	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC9	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
IC10	INTEGRATED CIRCUIT,OPERATIONAL AMPLIFIER	920300084	27014	LM301AH	1	
L1	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L2	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L3	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L4	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
L5	INDUCTOR,FXD,RF,100UH,PORM 5PCT,0.22W	909000145	99800	1537-76	1	
Q1	TRANSISTOR,PNP	910300055	04713	2N3906	1	
R1	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R2	RESISTOR,FXD,FILM,2.37K,PORM 1PCT,1/8W	907302371	91637	MFF1/8	1	
R3	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R4	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R5	RESISTOR,FXD,COMP,2.2K,PORM 5PCT,1/4W	906900222	06560	906900222	1	
R6	RESISTOR,FXD,FILM,1.43K,PORM 1PCT,1/8W	907301431	91637	MFF1/8	1	
R7	RESISTOR,FXD,FILM,1.15K,PORM 1PCT,1/8W	907301151	91637	MFF1/8	1	
R8	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R9	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R10	RESISTOR,FXD,FILM,365K,PORM 1PCT,1/8W	907303653	91637	MFF1/8	1	
R11	RESISTOR,FXD,COMP,3.3K,PORM 5PCT,1/4W	906900332	06560	906900332	1	
R12	RESISTOR,FXD,COMP,6.8K,PORM 5PCT,1/4W	906900682	06560	906900682	1	
R13	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R14	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R15	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R16	RESISTOR,FXD,FILM,2.21K,PORM 1PCT,1/8W	907302211	91637	MFF1/8	1	
R17	RESISTOR,FXD,FILM,24.9K,PORM 1PCT,1/8W	907302492	91637	MFF1/8	1	
R18	RESISTOR,FXD,FILM,75.0K,PORM 1PCT,1/8W	907307502	91637	MFF1/8	1	
R19	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R20	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R21	RESISTOR,FXD,FILM,15.0K,PORM 1PCT,1/8W	907301502	91637	MFF1/8	1	
R22	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R23	RESISTOR,FXD,FILM,3.32K,PORM 1PCT,1/8W	907303321	91637	MFF1/8	1	
R24	RESISTOR,FXD,FILM,5.23K,PORM 1PCT,1/8W	907305231	91637	MFF1/8	1	
R25	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R26	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R27	RESISTOR,VAR,2K,PORM 10PCT,15-TURN	907900288	73138	89PR2K	1	
R28	RESISTOR,FXD,FILM,1.37K,PORM 1PCT,1/8W	907301371	91637	MFF1/8	1	
R29	RESISTOR,FXD,FILM,16.5K,PORM 1PCT,1/8W	907301652	91637	MFF1/8	1	
R30	RESISTOR,FXD,FILM,33.2K,PORM 1PCT,1/8W	907303322	91637	MFF1/8	1	
R31	RESISTOR,FXD,COMP,33K,PORM 5PCT,1/4W	906900333	06560	906900333	1	
R32	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R33	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R34	RESISTOR,FXD,COMP,10K,PORM 5PCT,1/4W	906900103	06560	906900103	1	
R35	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R36	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R37	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R38	RESISTOR,FXD,FILM,6.19K,PORM 1PCT,1/8W	907306191	91637	MFF1/8	1	
R39	RESISTOR,FXD,COMP,4.7K,PORM 5PCT,1/4W	906900472	06560	906900472	1	
R40	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R41	RESISTOR,FXD,FILM,75.0K,PORM 1PCT,1/8W	907307502	91637	MFF1/8	1	
R42	RESISTOR,FXD,FILM,38.3K,PORM 1PCT,1/8W	907303832	91637	MFF1/8	1	
R43	RESISTOR,FXD,FILM,200K,PORM 1PCT,1/8W	907302003	91637	MFF1/8	1	
R44	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R45	RESISTOR,FXD,COMP,100 OHM,PORM 5PCT,1/4W	906900101	06560	906900101	1	
R46	RESISTOR,FXD,FILM,100 K,PORM 1PCT,1/8W	907301003	91637	MFF1/8	1	
R47	RESISTOR,FXD,FILM,27.4K,PORM 1PCT,1/8W	907302742	91637	MFF1/8	1	
R48	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R49	RESISTOR,FXD,FILM,78.7K,PORM 1PCT,1/8W	907307872	91637	MFF1/8	1	
R50	RESISTOR,VAR,2K,PORM 10PCT,15-TURN	907900288	73138	89PR2K	1	

REF DESIG	DESCRIPTION	SIERRA PART NUMBER	FMC	DRAWING NO. OR MFG NO.	QTY	EFFECTIVITY CODE
R51	RESISTOR,FXD,FILM,301 OHM,PORM 1PCT,1/8W	907303010	91637	MFF1/8	1	
R52	RESISTOR,FXD,FILM,16.2K,PORM 1PCT,1/8W	907301622	91637	MFF1/8	1	
R53	RESISTOR,FXD,COMP,6.8K,PORM 5PCT,1/4W	906900682	06560	906900682	1	
R55	RESISTOR,FXD,FILM,12.4K,PORM 1PCT,1/8W	907301242	91637	MFF1/8	1	
R56	RESISTOR,FXD,FILM,39.2K,PORM 1PCT,1/8W	907303922	91637	MFF1/8	1	
R57	RESISTOR,FXD,FILM,10.0K,PORM 1PCT,1/8W	907301002	91637	MFF1/8	1	
TPGND	JACK,TEST,PC BOARD,BLACK	915200032	83330	430-103	1	
TP1	JACK,TEST,PC BOARD,BROWN	915200030	83330	430-108	1	
TP2	JACK,TEST,PC BOARD,RED	915200029	83330	430-102	1	
TP3	JACK,TEST,PC BOARD,ORANGE	915200028	83330	430-106	1	
TP4	JACK,TEST,PC BOARD,YELLOW	915200027	83330	430-107	1	
V1	PHOTO CELL	910300134	18178	VTL1A3	1	
A5	MOTHER BOARD /BREAKDOWN/	D03000200	94668	D03000200		
	PRINTED WIRING BOARD	904500499	94668	904500499	1	
C1	CAPACITOR,FXD,ELECT,47UF,PORM 10PCT,20V, TANTALUM DIELECTRIC,SLEEVED	902700476	81349	CS13BF476K	1	
J1	CONNECTOR,PC BOARD,15/30 PINS	914800149	05574	2VH15/1AV-5	1	
J2	CONNECTOR,PC BOARD,15/30 PINS	914800149	05574	2VH15/1AV-5	1	
J3	CONNECTOR,PC BOARD,15/30 PINS	914800149	05574	2VH15/1AV-5	1	
J4	CONNECTOR,PC BOARD,15/30 PINS	914800149	05574	2VH15/1AV-5	1	
J6	CONNECTOR,PC BOARD,15/30 PINS	914800149	05574	2VH15/1AV-5	1	
R1	RESISTOR,FXD,COMP,82 OHM,PORM 5PCT,1/4W	906900820	06560	906900820	1	
R2	RESISTOR,FXD,FILM,76.8K,PORM 1PCT,1/8W	907307682	91637	MFF1/8	1	
R3	RESISTOR,FXD,FILM,750 OHM,PORM 1PCT,1/4W	908307500	91637	MFF1/4	1	
R4	RESISTOR,FXD,FILM,750 OHM,PORM 1PCT,1/4W	908307500	91637	MFF1/4	1	
R5	RESISTOR,FXD,FILM,294 OHM,PORM 1PCT,1/4W	908302940	91637	MFF1/4	1	
R6	RESISTOR,FXD,FILM,442 OHM,PORM 1PCT,1/4W	908304420	91637	MFF1/4	1	
R7	RESISTOR,FXD,FILM,442 OHM,PORM 1PCT,1/4W	908304420	91637	MFF1/4	1	
R8	RESISTOR,FXD,FILM,294 OHM,PORM 1PCT,1/4W	908302940	91637	MFF1/4	1	
R9	RESISTOR,FXD,FILM,900 OHM,PORM 1PCT,1/2W	907400233	91637	MFF1/2	1	
R10	RESISTOR,FXD,FILM,600 OHM,PORM 0.25PCT,1/2W	907400232	91637	MFF1/2	1	
R11	RESISTOR,FXD,FILM,900 OHM,PORM 1PCT,1/2W	907400233	91637	MFF1/2	1	
R12	RESISTOR,FXD,FILM,600 OHM,PORM 0.25PCT,1/2W	907400232	91637	MFF1/2	1	
R13	RESISTOR,FXD,COMP,5.6K,PORM 5PCT,1/4W	906900562	06560	906900562	1	
R14	RESISTOR,FXD,COMP,8.2K,PORM 5PCT,1/4W	906900822	06560	906900822	1	
R15	RESISTOR,FXD,COMP,680 OHM,PORM 5PCT,1/2W	905000681	01121	EB	1	
R16	RESISTOR,VAR,500 OHM,PORM 10PCT,3-TURN	907900223	71450	M175PCT501A	1	
R17	RESISTOR,FXD,FILM,137 OHM,PORM 1PCT,1/8W	907301370	91637	MFF1/8	1	
R18	RESISTOR,FXD,FILM,1.00K,PORM 1PCT,1/8W	907301001	91637	MFF1/8	1	
S1/2	SWITCH,PUSHBUTTON,3-STATION;P/N 3XFA15-FA100/BLK-ORN STA1 4UOA STA2 BL STA3 6UEE	911300058	31918	SEE DESCRIPT.	1	
S3/4	SWITCH,PUSHBUTTON,4PDT,3-STATION;P/N 3XFA15-FA100/BLK-ORN STA1 4VEE STA2 BL STA3 4VEE	911300059	31918	SEE DESCRIPT.	1	
T1	TRANSFORMER,AUDIO	909900029	94668	909900029	1	

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